



From the mapping of e-waste management activities in the UN to a programmatic proposal

E-Waste Management Forum,
Session “International Organizations
Practices”

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UN Environment Programme Thematic Priorities

- Climate change
- Ecosystem management
- **Resource Efficiency/ Sustainable Consumption and Production**
- **Harmful Substances and Hazardous Waste**
- Disasters and conflicts
- Environmental governance

Resource Efficiency / Sustainable Consumption and Production



- Division of Technology, Industry and Economics
 - Sustainable Consumption and Production (SCP) Branch
 - International Environmental Technology Centre (IETC)
- Marrakech Process/10-year Framework of Programmes on Sustainable Consumption and Production
 - Facilitated by UNEP and UN DESA
- International Panel for Sustainable Resource Management
- OECD – UNEP Conferences on Resource-Efficiency
- UNEP-SETAC Life Cycle Initiative
- Pilot Projects on Integrated Waste Management



Hazardous Substances and Hazardous Waste

- **Division of Technology, Industry and Economics**
 - *Chemicals Branch*
- **Strategic Approach to International Chemicals Management (SAICM)**
- **International Conferences on Chemical Management**
- **Secretariat of the Basel Convention**
- **PACE, MPPI, Regional E-waste Projects**
- **World Forum on E-waste**
 - *Organized on 30 November 2006 as part of Basel Convention COP-8*
 - *Chaired by UNEP's Executive Director Achim Steiner, who said:*
- **“Governments need to develop effective regulatory regimes that empower the market to respond positively to the challenge of e-wastes. By partnering with the private sector and with civil society, they can promote collection chains that channel obsolete goods back to their original manufacturers for recovery and recycling”.**



UNEP history of e-waste activities

SCP Branch

- Global e-Sustainability Initiative and StEP
- Pilot project in India
 - Mumbai-Pune Region E-waste Assessment
 - E-Waste Awareness Campaign
 - Informal Sector Networking and Training
 - National E-waste Legislation Workshop
 - E-waste session at Asia Pacific Roundtable on SCP

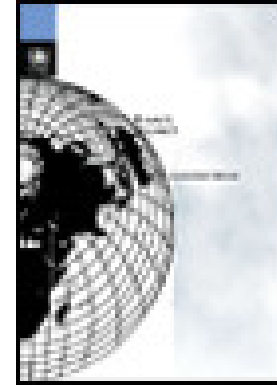
Chemicals Branch

- Pilot Projects on POPs from Waste

IETC

- UNEP E-waste Manual

UNEP E-waste Manual -1



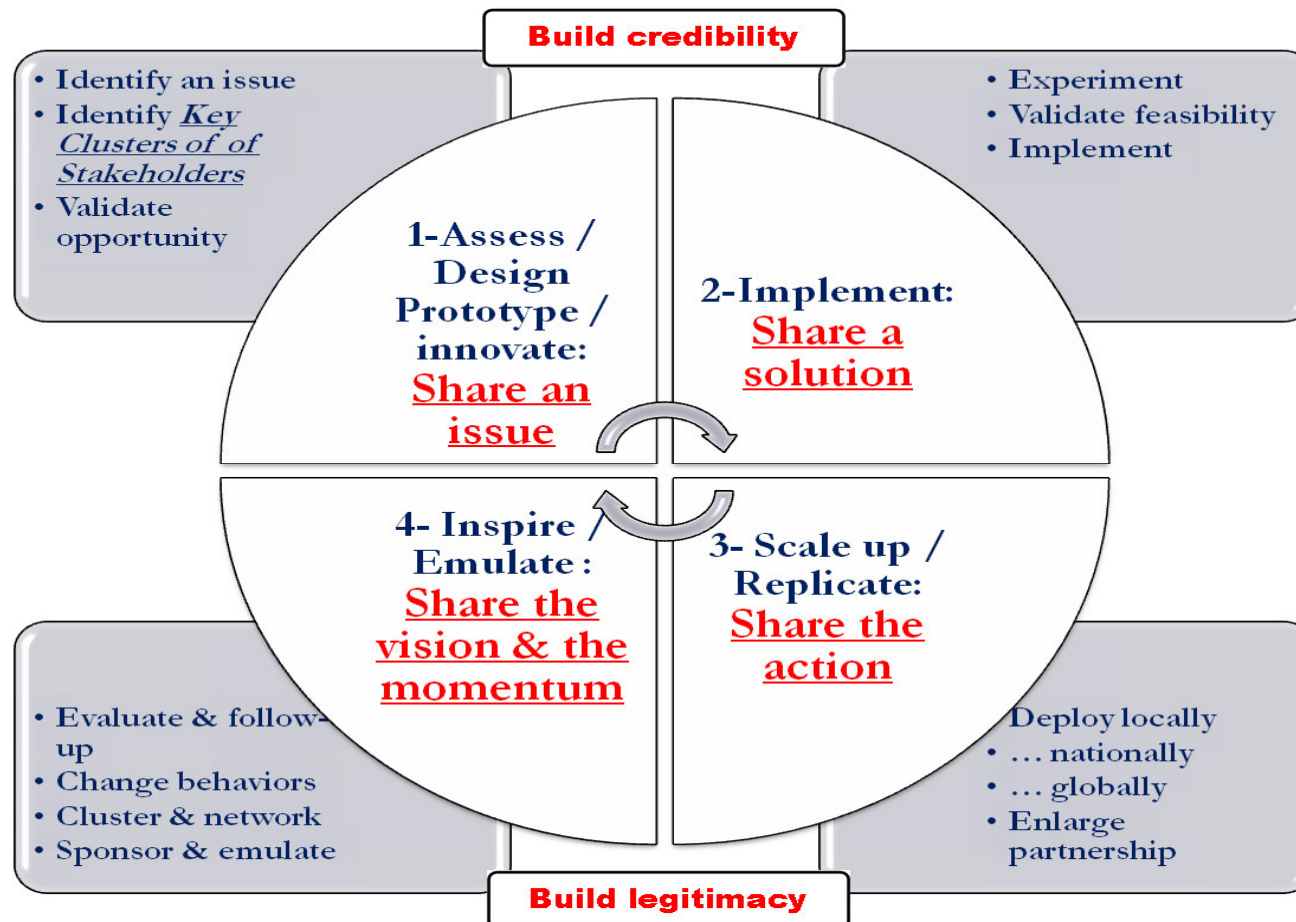
- **To build the capacity of practitioners and policy makers for preparing and developing an E-waste management system**
- **E-Waste Vol. 1: Inventory Assessment Manual (Dec 2007)**
 - Summarizes the available legislations on E-waste in different countries and provides a methodology to design and use E-waste inventory assessment studies and projects.
 - Discusses the E-waste management chain (starting from electrical and electronic equipment manufacture, production, import, consumption, E-waste generation, treatment and disposal) to identify the "mechanism of trading" and related socio-economic and environmental risks.
 - Elaborates methodologies for E-waste inventory assessment in a city/geographical area/country with reference to developing countries.
 - Provides case studies from developing countries.

UNEP E-waste Manual -2



- **Available at**
http://www.unep.or.jp/letc/Publications/index_pub.asp
- **E-Waste Vol. 2: E-waste Management Manual (Dec 2007)**
 - Summarizes the current practices in developed and developing countries on E-waste management, the technologies for E-waste management (collection, transportation, treatment and disposal) and the important pre-requisites for effective and sustainable E-waste management.
 - Provides the conceptual approach for developing regulatory system of E-waste management for policy makers in order to design an E-waste management system.
 - Reviews current practices for E-waste management from developed and developing countries.
 - Discusses financial viability of E-waste management for effective and sustainable E-waste management.
 - Presents a case study from a developing country, which describes each aspect of E-waste management including techno-economic feasibility

Mapping of e-waste management activities in the UN





Strategic Priorities in the proposed E-waste Programme

- Theme 1: Take global actions
 - Engage stakeholders
 - Build local capacity and train
 - Transfer technologies and sustainable models
- Theme 2: Improving understanding of the e-waste issue
 - Enable creation of holistic, broad perspective for decision makers
 - Address different trade-offs in life cycle perspective
 - Bridge scientific output into the political debate
- Theme 3: Communicating and raising public awareness
 - Provide guidance
 - Raise awareness



Theme 1: Take global actions

Engage stakeholders

- Engage more GeSI member companies in the GeSI E-waste WG and develop an End-Of-Life management tool and an integrated road map focusing on material stewardship for the WG

Build local capacity and train

- Carry out a local pilot project on e-waste in Cambodia
- Prepare e-waste projects under the UNIDO-UNEP Programme on Resource-Efficient and Cleaner Production (RECP) in Developing Countries and Transition Countries

Transfer technologies and sustainable models

- Issue a Sustainable Innovation and Technology Transfer - Industrial Sector Study on Recycling “From E-waste to Resources” (done through StEP)



Theme 2: Improving understanding of the e-waste issue

Enable creation of holistic perspective for decision makers

- Join the Steering Committee of the StEP Initiative

Address different trade-offs in life cycle perspective

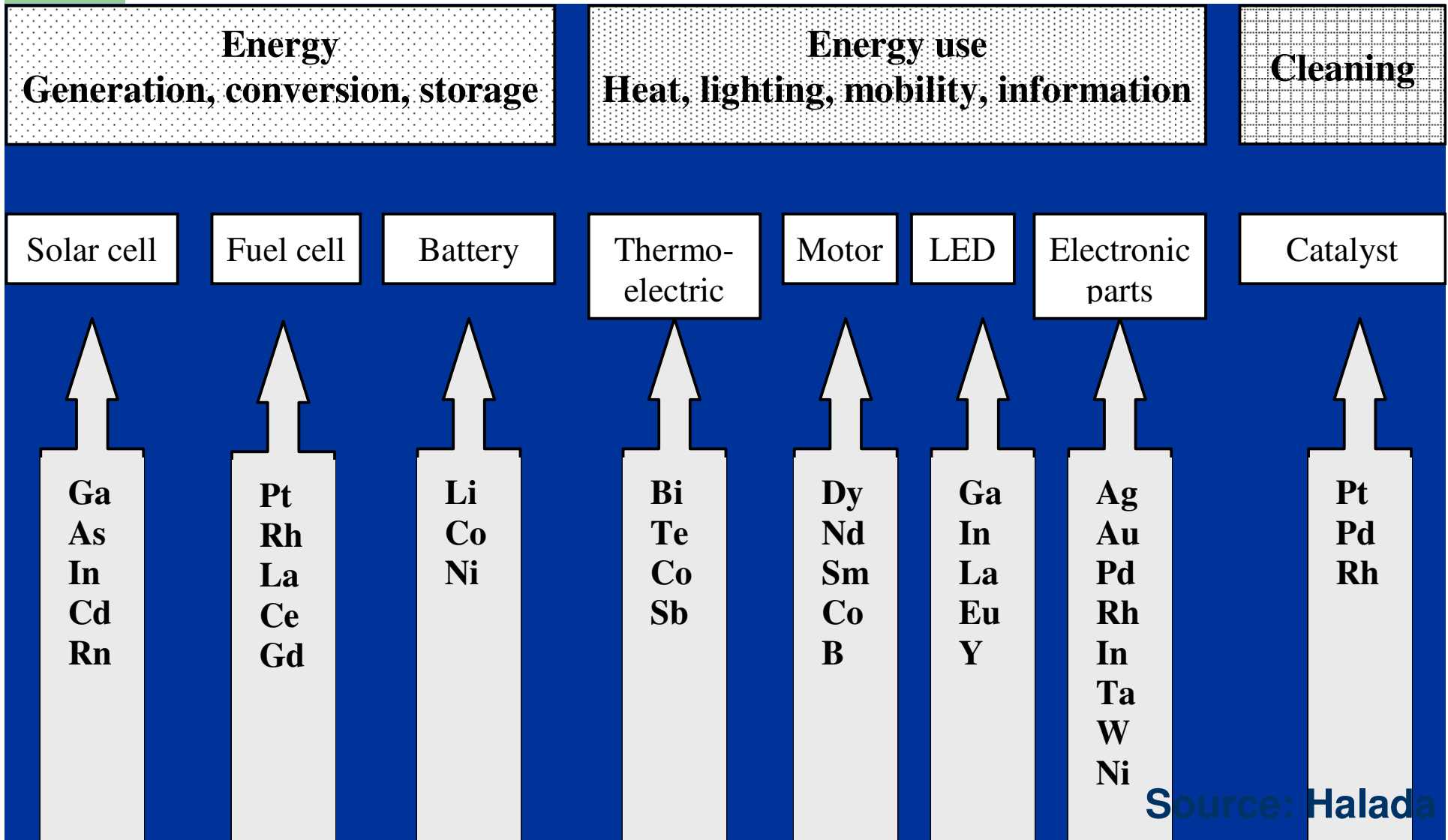
- Work with Global Metal Flows Group of the International Panel for Sustainable Resource Management
 - Study on the stocks of metals in use
 - Study on opportunities and challenges for metal recycling
 - Study on environmental implications of global metal flows
 - *Background studies on a) global flow of metals and b) critical metals*

Bridge scientific output into the political debate

- Support e-waste management as a topic in OECD and SAICM

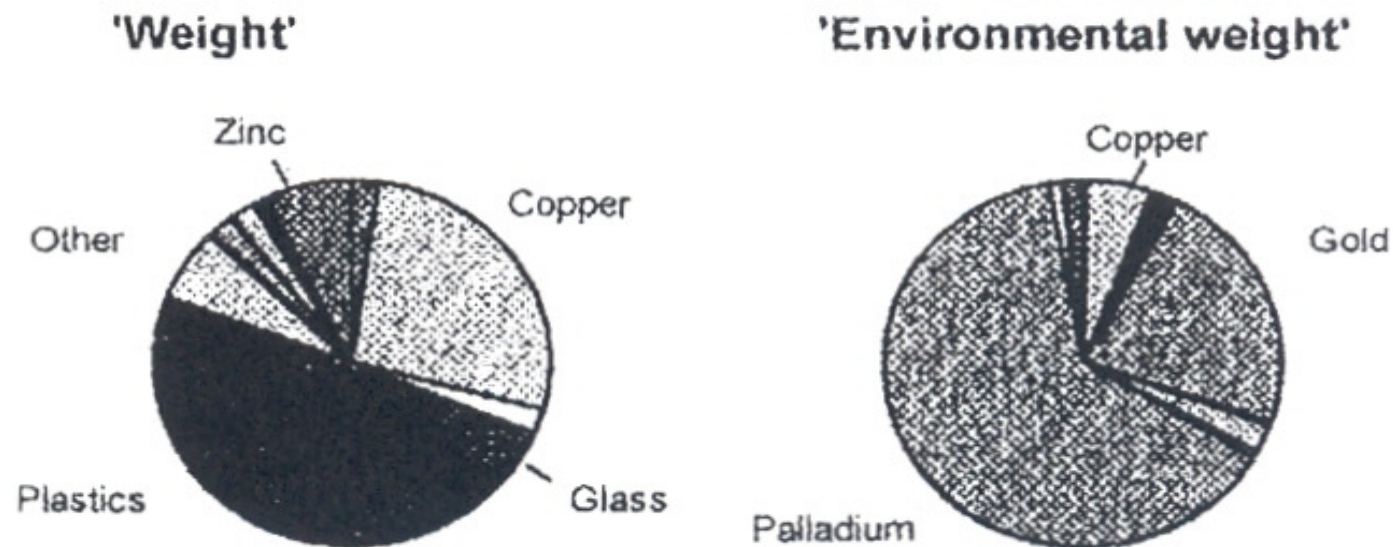


Critical metals required in eco-innovation **UNEP**



Source: Halada

Physical versus environmental weight for cellular phones



Source: Huisman et al.

- E-waste is a global problem!
 - Resource supply
 - Minimising environmental impact



Theme 3: Communicating and Raising public awareness

Provide global guidance

- **Support the Partnership for Action on Computer Equipment (PACE)**

Raise awareness

- Develop an e-waste awareness-raising video through an award for students in communication

***This e-waste Management Forum
“Circulating Success”
is a great awareness-raising event!***



More information about UNEP DTIE's work on ICT and E-waste

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